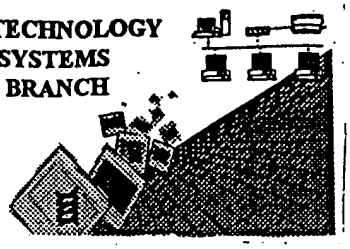
BIOTECHNOLOGY SYSTEMS BRANCH



3113

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/078,757
Source: OIPE
Date Processed by STIC: 3/7/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the [illegible] and instead should be sent via the following:

1. **EFS-Web (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202**
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Wind w, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or ther delivery service t : U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Tw , 2011 South Clark Place, Arlington, VA 22202**

Revised 01/29/2002

Raw Sequence Listing Error Summary

OIPE

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/078,757

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. **If intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n	**n** can only be used to represent a single **nucleotide** in a nucleic acid sequence. **N is not used to represent any value not specifically a nucleotide.**

AMC/MH – Biotechnology Systems Branch – 08/21/2001

OIPE

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/078,757

DATE: 03/07/2002
TIME: 10:20:34

Input Set : A:\598-0CON1SEQLIST.TXT
Output Set: N:\CRF3\03072002\J078757.raw

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

```
     4 <110> APPLICANT: BARBAS, C. F.
     5       RADER, C.
     7 <120> TITLE OF INVENTION: HUMANIZATION OF MURINE ANTIBODY
    10 <130> FILE REFERENCE: TSRI 598.0-CON1
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/078,757
C--> 12 <141> CURRENT FILING DATE: 2000-02-19
    12 <150> PRIOR APPLICATION NUMBER: US 08/986,016
    13 <151> PRIOR FILING DATE: 1997-12-05
    15 <160> NUMBER OF SEQ ID NOS: 56
    17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    19 <210> SEQ ID NO: 1
    20 <211> LENGTH: 8
    21 <212> TYPE: PRT
    22 <213> ORGANISM: amino acid
    24 <400> SEQUENCE: 1
    25 His Asn Tyr Gly Ser Phe Ala Tyr
    26  1               5
    29 <210> SEQ ID NO: 2
    30 <211> LENGTH: 9
    31 <212> TYPE: PRT
    32 <213> ORGANISM: amino acid
    34 <400> SEQUENCE: 2
    35 Gln Gln Ser Asn Ser Trp Pro His Thr
    36  1               5
    39 <210> SEQ ID NO: 3
    40 <211> LENGTH: 37
    41 <212> TYPE: DNA
    42 <213> ORGANISM: nucleic acid
    44 <400> SEQUENCE: 3
    45 gggcccaggc ggccgagctc cagatgaccc agtctcc                          37
    47 <210> SEQ ID NO: 4
    48 <211> LENGTH: 37
    49 <212> TYPE: DNA
    50 <213> ORGANISM: nucleic acid
    52 <400> SEQUENCE: 4
    53 gggcccaggc ggccgagctc gtgatgacyc agtctcc                          37
    55 <210> SEQ ID NO: 5
    56 <211> LENGTH: 37
    57 <212> TYPE: DNA
    58 <213> ORGANISM: nucleic acid
    60 <400> SEQUENCE: 5
    61 gggcccaggc ggccgagctc gtgwtgacrc agtctcc                          37
    63 <210> SEQ ID NO: 6
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-invalid response, see error summary sheet, item 10

RAW SEQUENCE LISTING DATE: 03/07/2002
PATENT APPLICATION: US/10/078,757 TIME: 10:20:34

Input Set : A:\598-0CON1SEQLIST.TXT
Output Set: N:\CRF3\03072002\J078757.raw

64 <211> LENGTH: 37
65 <212> TYPE: DNA
66 <213> ORGANISM: nucleic acid
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69 gggcccaggc ggccgagctc acactcacgc agtctcc 37
71 <210> SEQ ID NO: 7
72 <211> LENGTH: 23
73 <212> TYPE: DNA
74 <213> ORGANISM: nucleic acid
76 <400> SEQUENCE: 7
77 cagtaataca ctgcaaaatc ttc 23
79 <210> SEQ ID NO: 8
80 <211> LENGTH: 23
81 <212> TYPE: DNA
82 <213> ORGANISM: nucleic acid
84 <400> SEQUENCE: 8
85 cagtaataaa ccccaacatc ctc 23
87 <210> SEQ ID NO: 9
88 <211> LENGTH: 40
89 <212> TYPE: DNA
90 <213> ORGANISM: nucleic acid
92 <400> SEQUENCE: 9
93 gggcccaggc ggccgagctc gtgbtgacgc agccgccctc 40
95 <210> SEQ ID NO: 10
96 <211> LENGTH: 40
97 <212> TYPE: DNA
98 <213> ORGANISM: nucleic acid
100 <400> SEQUENCE: 10
101 gggcccaggc ggccgagctc gtgctgactc agccaccctc 40
103 <210> SEQ ID NO: 11
104 <211> LENGTH: 43
105 <212> TYPE: DNA
106 <213> ORGANISM: nucleic acid
108 <400> SEQUENCE: 11
109 gggcccaggc ggccgagctc gccctgactc agcctccctc cgt 43
111 <210> SEQ ID NO: 12
112 <211> LENGTH: 46
113 <212> TYPE: DNA
114 <213> ORGANISM: nucleic acid
116 <400> SEQUENCE: 12
117 gggcccaggc ggccgagctc gagctgactc agccaccctc agtgtc 46
119 <210> SEQ ID NO: 13
120 <211> LENGTH: 40
121 <212> TYPE: DNA
122 <213> ORGANISM: nucleic acid
124 <400> SEQUENCE: 13
125 gggcccaggc ggccgagctc gtgctgactc aatcgccctc 40
127 <210> SEQ ID NO: 14
128 <211> LENGTH: 40

RAW SEQUENCE LISTING DATE: 03/07/2002
PATENT APPLICATION: US/10/078,757 TIME: 10:20:34

Input Set : A:\598-0CON1SEQLIST.TXT
Output Set: N:\CRF3\03072002\J078757.raw

129 <212> TYPE: DNA
130 <213> ORGANISM: nucleic acid
132 <400> SEQUENCE: 14
133 gggcccaggc ggccgagctc atgctgactc agccccactc 40
135 <210> SEQ ID NO: 15
136 <211> LENGTH: 40
137 <212> TYPE: DNA
138 <213> ORGANISM: nucleic acid
140 <400> SEQUENCE: 15
141 gggcccaggc ggccgagctc gggcagactc agcagctctc 40
143 <210> SEQ ID NO: 16
144 <211> LENGTH: 40
145 <212> TYPE: DNA
146 <213> ORGANISM: nucleic acid
148 <400> SEQUENCE: 16
149 gggcccaggc ggccgagctc gtggtgacyc aggagccmtc 40
151 <210> SEQ ID NO: 17
152 <211> LENGTH: 40
153 <212> TYPE: DNA
154 <213> ORGANISM: nucleic acid
156 <400> SEQUENCE: 17
157 gggcccaggc ggccgagctc gtgctgactc agccaccttc 40
159 <210> SEQ ID NO: 18
160 <211> LENGTH: 21
161 <212> TYPE: DNA
162 <213> ORGANISM: nucleic acid
164 <400> SEQUENCE: 18
165 gcagtaataa tcagcctcrt c 21
167 <210> SEQ ID NO: 19
168 <211> LENGTH: 44
169 <212> TYPE: DNA
170 <213> ORGANISM: nucleic acid
172 <400> SEQUENCE: 19
173 gctgcccaac cagccatggc ccaggtgcag ctggtgcagt ctgg 44
175 <210> SEQ ID NO: 20
176 <211> LENGTH: 44
177 <212> TYPE: DNA
178 <213> ORGANISM: nucleic acid
180 <400> SEQUENCE: 20
181 gctgcccaac cagccatggc ccagatcacc ttgaaggagt ctgg 44
183 <210> SEQ ID NO: 21
184 <211> LENGTH: 44
185 <212> TYPE: DNA
186 <213> ORGANISM: nucleic acid
188 <400> SEQUENCE: 21
189 gctgcccaac cagccatggc cgaggtgcag ctggtgsagt ctgg 44
191 <210> SEQ ID NO: 22
192 <211> LENGTH: 44
193 <212> TYPE: DNA

RAW SEQUENCE LISTING DATE: 03/07/2002
PATENT APPLICATION: US/10/078,757 TIME: 10:20:34

Input Set : A:\598-0CON1SEQLIST.TXT
Output Set: N:\CRF3\03072002\J078757.raw

194 <213> ORGANISM: nucleic acid
196 <400> SEQUENCE: 22
197 gctgcccaac cagccatggc ccaggtgcag ctgcaggagt cggg 44
199 <210> SEQ ID NO: 23
200 <211> LENGTH: 24
201 <212> TYPE: DNA
202 <213> ORGANISM: nucleic acid
204 <400> SEQUENCE: 23
205 cgcacagtaa tacacggccg tgtc 24
207 <210> SEQ ID NO: 24
208 <211> LENGTH: 21
209 <212> TYPE: DNA
210 <213> ORGANISM: nucleic acid
212 <400> SEQUENCE: 24
213 acctattgcc tacggcagcc g 21
215 <210> SEQ ID NO: 25
216 <211> LENGTH: 24
217 <212> TYPE: DNA
218 <213> ORGANISM: nucleic acid
220 <400> SEQUENCE: 25
221 cgcacagtaa tacacggccg tgtc 24
223 <210> SEQ ID NO: 26
224 <211> LENGTH: 8
225 <212> TYPE: PRT
226 <213> ORGANISM: amino acid
228 <400> SEQUENCE: 26
229 Asp Thr Ala Val Tyr Tyr Cys Ala
230 1 5
233 <210> SEQ ID NO: 27
234 <211> LENGTH: 8
235 <212> TYPE: PRT
236 <213> ORGANISM: amino acid
238 <400> SEQUENCE: 27
239 Asp Thr Ala Met Tyr Tyr Cys Ala
240 1 5
243 <210> SEQ ID NO: 28
244 <211> LENGTH: 69
245 <212> TYPE: DNA
246 <213> ORGANISM: nucleic acid
248 <400> SEQUENCE: 28
249 gacacggccg tgtattactg tgcgcgtcat aactacggca gttttgctta ctggggccag 60
250 ggaaccctg 69
252 <210> SEQ ID NO: 29
253 <211> LENGTH: 42
254 <212> TYPE: DNA
255 <213> ORGANISM: nucleic acid
257 <400> SEQUENCE: 29
258 gaggaggagg aggagactag ttttgtcaca agatttgggc tc 42
260 <210> SEQ ID NO: 30

RAW SEQUENCE LISTING DATE: 03/07/2002
PATENT APPLICATION: US/10/078,757 TIME: 10:20:34

Input Set : A:\598-0CON1SEQLIST.TXT
Output Set: N:\CRF3\03072002\J078757.raw

261 <211> LENGTH: 73
262 <212> TYPE: DNA
263 <213> ORGANISM: nucleic acid
265 <400> SEQUENCE: 30
266 gaagattttg cagtgtatta ctgcccaaca gagtaacagc tggcctcaca cgtttggcca 60
267 ggggaccaag ctg 73
269 <210> SEQ ID NO: 31
270 <211> LENGTH: 21
271 <212> TYPE: DNA
272 <213> ORGANISM: nucleic acid
274 <400> SEQUENCE: 31
275 aatacgactc actatagggc g 21
277 <210> SEQ ID NO: 32
278 <211> LENGTH: 72
279 <212> TYPE: DNA
280 <213> ORGANISM: nucleic acid
282 <400> SEQUENCE: 32
283 gaggatgttg gggtttatta ctgccaacag agtaacagct ggcctcacac gtttggccag 60
284 gggaccaagc tg 72
286 <210> SEQ ID NO: 33
287 <211> LENGTH: 8
288 <212> TYPE: PRT
289 <213> ORGANISM: amino acid
291 <400> SEQUENCE: 33
292 Glu Asp Phe Ala Val Tyr Tyr Cys
293 1 5
296 <210> SEQ ID NO: 34
297 <211> LENGTH: 8
298 <212> TYPE: PRT
299 <213> ORGANISM: amino acid
301 <400> SEQUENCE: 34
302 Glu Asp Val Gly Val Tyr Tyr Cys
303 1 5
306 <210> SEQ ID NO: 35
307 <211> LENGTH: 69
308 <212> TYPE: DNA
309 <213> ORGANISM: nucleic acid
311 <400> SEQUENCE: 35
312 gaygaggctg attattactg ccaacagagt aacagctggc ctcacacgtt cggcggaggg 60
313 accaagctg 69
315 <210> SEQ ID NO: 36
316 <211> LENGTH: 50
317 <212> TYPE: DNA
318 <213> ORGANISM: nucleic acid
320 <400> SEQUENCE: 36
321 agagagagag agagagagag cgccgtctag aattatgaac attctgtagg 50
323 <210> SEQ ID NO: 37
324 <211> LENGTH: 7
325 <212> TYPE: PRT

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/07/2002
PATENT APPLICATION: US/10/078,757 TIME: 10:20:35

Input Set : A:\598-0CON1SEQLIST.TXT
Output Set: N:\CRF3\03072002\J078757.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:46; N Pos. 26,27,29,30,32,33,35,36

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/078,757

DATE: 03/07/2002
TIME: 10:20:35

Input Set : A:\598-0CON1SEQLIST.TXT
Output Set: N:\CRF3\03072002\J078757.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0